

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	61	robert near noble.in.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:45
S2	3	douglas near laing.in.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:45
S3	1	andrew near mcbrien.in.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:46
S4	84	peter near ward.in.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:46
S5	185	"aspen".as.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:46
S6	1	S5 and (model\$4 and view\$4 and tier).clm.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:50
S7	2	S5 and (model\$4 and view\$4).clm.	US-PGPUB; USPAT	OR	ON	2007/03/21 12:47
S8	2582	717/100-105,120-123.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 12:50
S9	142	S8 and (model\$4 and view\$4 and tier)	US-PGPUB; USPAT	OR	ON	2007/03/21 12:50
S10	92	S9 and (@pd<"20021025" or @ad<"20021025" or @prad<"20021025" or @rlad<"20021025")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 12:50
S11	90	("5557545" "4802115" "5987472" "5227121" "5227122" "5265131" "5267277" "5267278" "5271045" "5287390" "5347553" "5353315" "5353316" "5355395" "5375150" "5394447" "5715178" "3927948" "4355238" "4385361" "4408123" "4427881" RE31773 "4531186" "4563746" RE33162 "4961148" "5008810" "5009833" "5023179" "5181198" "5191534" "5251268" "5311562" "5317606" "5331335" "5355445" "5581459" "5625798" "5657245" "5727127" "5793648" "5826060" "5930779" "6041178" "6041263" "6047241" "6137793" "6169996" "6287765" ).pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:37

## EAST Search History

S12	2	(data adj model) and (class adj view) and ((composite or consolidat\$4) adj class adj view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:44
S13	52	(data adj model) and (class adj view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:51
S14	44	multi\$1tier near model	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:51
S15	5	("20020026630"   "20020198727"   "5845289"   "6349298"   "6678668").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 13:53
S16	16949	(data adj model) or (data adj view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:55
S17	73	S16 and (class adj view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:55
S18	17	(class adj view) and ((composite or consolidat\$4) near3 view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:09
S19	273	717/105.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:10
S20	167	S19 and class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:10

## EAST Search History

S21	140	S20 and model\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:10
S22	12	S21 and tier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:13
S23	402	class adj (view or diagram) and (data adj model)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:13
S24	20	S23 and ((composite or consolidat\$4 or combin\$5) near3 view)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 14:15
S25	4	("6018627"   "6199195"   "6212672"   "6742175").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/21 14:26



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Relevance scale ☐ ☐ ☐ ☐ ☐**41** [Autonomic Web-Based Simulation](#)

Yingping Huang, Gregory Madey

April 2005 **Proceedings of the 38th annual Symposium on Simulation ANSS '05**

Publisher: IEEE Computer Society

Full text available: [pdf\(264.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Many scientific simulations are large programs which despite careful debugging and testing will probably contain errors when deployed to the Web for use. Based on the assumption that such scientific simulations do contain errors and the underlying computing systems do fail due to hardware or software errors, the authors investigate and explore robust methods for developing and deploying autonomic web-based simulations(AWS) based on the Vision of Autonomic Computing.

**42** [Sensornet services: TSAR: a two tier sensor storage architecture using interval skip](#)[graphs](#)

Peter Desnoyers, Deepak Ganesan, Prashant Shenoy

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available: [pdf\(444.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Archival storage of sensor data is necessary for applications that query, mine, and analyze such data for interesting features and trends. We argue that existing storage systems are designed primarily for flat hierarchies of homogeneous sensor nodes and do not fully exploit the multi-tier nature of emerging sensor networks, where an application can comprise tens of tethered proxies, each managing tens to hundreds of untethered sensors. We present *TSAR*, a fundamentally different storage ar ...

**Keywords:** archival storage, indexing methods, wireless sensor networks**43** [WebView materialization](#)

Alexandros Labrinidis, Nick Roussopoulos

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: [pdf\(195.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A *WebView* is a web page automatically created from base data typically stored in a DBMS. Given the multi-tiered architecture behind database-backed web servers, we have the option of materializing a *WebView* inside the DBMS, at the web server, or not at all,

always computing it on the fly (virtual). Since WebViews must be up to date, materialized WebViews are immediately refreshed with every update on the base data. In this paper we compare the three materialization policies (materializ ...

#### 44 Help design challenges in network computing



Ben Gelernter

September 1998 **Proceedings of the 16th annual international conference on Computer documentation SIGDOC '98**

**Publisher:** ACM Press

Full text available: pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** documentation, help, information architecture, network computing, network computing architecture, online help, thin clients, user assistance

#### 45 Mercury and freon: temperature emulation and management for server systems



Taliver Heath, Ana Paula Centeno, Pradeep George, Luiz Ramos, Yogesh Jaluria

October 2006 **ACM SIGARCH Computer Architecture News , ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII**, Volume 34 , 41 , 40 Issue 5 , 11 , 5

**Publisher:** ACM Press

Full text available: pdf(406.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Power densities have been increasing rapidly at all levels of server systems. To counter the high temperatures resulting from these densities, systems researchers have recently started work on *softwarebased thermal management*. Unfortunately, research in this new area has been hindered by the limitations imposed by simulators and real measurements. In this paper, we introduce Mercury, a software suite that avoids these limitations by accurately emulating temperatures based on simple layout ...

**Keywords:** energy conservation, server clusters, temperature modeling, thermal management

#### 46 Information systems: User interface code generation for EJB-based data models using intermediate form representations

Branko Milosavljević, Milan Vidaković, Srdjan Komazec, Gordana Milosavljević

June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java PPPJ '03**

**Publisher:** Computer Science Press, Inc.

Full text available: pdf(133.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The use of J2EE platform enables data model development based on EJB components. Data modeling concepts of EJB technology, although resembling those of relational databases, are different and need new methods for automated user interface code generation. This paper presents a method for user interface code generation based on intermediate form representations that can be used to build equivalent user interfaces in multiple environments like standalone GUI applications, web, or wireless devices. ...

#### 47 Web system-oriented performance: Capacity planning tools for web and grid environments



Sugato Bagchi, Eugene Hung, Arun Iyengar, Norbert Vogl, Noshir Wadia

October 2006 **Proceedings of the 1st international conference on Performance evaluation methodologies and tools valuetools '06**

**Publisher:** ACM Press

Full text available: pdf(453.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A key aspect in managing resources for customer sites is to predict and assess the load associated with a site in order to figure out how best to allocate resources for the site over time and to efficiently schedule tasks. The cost associated with the site and return on investment are also key parameters. This paper describes work we have done in developing tools for answering these critical questions. The tools use both analytical models and discrete event simulations to predict performance and ...

**Keywords:** capacity planning, grid computing, performance modeling, web performance

48 Integrating Web Service and Grid Enabling Technologies to Provide Desktop Access to High-Performance Cluster-Based Components for Large-Scale Data Services

Victor P. Holmes, Wilbur R. Johnson, David J. Miller

March 2003 **Proceedings of the 36th annual symposium on Simulation ANSS '03**

**Publisher:** IEEE Computer Society

Full text available:  pdf(157.88 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

At Sandia National Laboratories, a Data Services system is under development to provide web-based access to high-performance computing clusters. These clusters host a set of scalable post-processing applications for very large data manipulation and visualization of results generated by large-scale simulations in support of the design to analysis process for ensuring safety and reliability of the nation's nuclear weapons stockpile. The primary contribution of this work is the integration of standards-based ...

49 Q focus: enterprise distributed computing: Enterprise software as service



Dean Jacobs

July 2005 **Queue**, Volume 3 Issue 6

**Publisher:** ACM Press

Full text available:  pdf(288.55 KB)  htm(22.43 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

50 Measurement, modeling, and analysis of a peer-to-peer file-sharing workload



Krishna P. Gummadi, Richard J. Dunn, Stefan Saroiu, Steven D. Gribble, Henry M. Levy, John Zahorjan

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(751.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer (P2P) file sharing accounts for an astonishing volume of current Internet traffic. This paper probes deeply into modern P2P file sharing systems and the forces that drive them. By doing so, we seek to increase our understanding of P2P file sharing workloads and their implications for future multimedia workloads. Our research uses a three-tiered approach. First, we analyze a 200-day trace of over 20 terabytes of Kazaa P2P traffic collected at the University of Washington. Second, we ...

**Keywords:** Zipf's law, measurement, modeling, multimedia workloads, peer-to-peer

51 Manufacturing applications: Supply chain simulation: a simulation-based tool for inventory analysis in a server computer manufacturing environment

Heng Cao, Feng Cheng, Haifeng Xi, Markus Ettl, Steve Buckley, Carlos Rodriguez

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**

**Publisher:** Winter Simulation Conference

Full text available:  pdf(537.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we describe a simulation-based inventory management tool developed for the IBM Enterprise Server Group. Through the Web interface of the tool, an inventory manager is able to visualize Days of Supply (DOS) levels — current and projected, and to carry out what-if scenario analysis to identify potential opportunities for improvement. The highly complicated server manufacturing environment poses simulation modeling challenges such as two-stage fabrication/fulfillment process ...

52 Developing and enhancing a client/server programming for internet applications course

W. Sam Chung, Don McLane

December 2002 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 2

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  pdf(78.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of this paper is to describe the development and enhancement of a Client/Server (C/S) programming for Internet applications course in Computer Science (CS) curriculum. If a CS program has used Java as the first programming language and the program does not have enough resources to support the C/S course development with proprietary environments, it will bring an issue: how can we develop and enhance the C/S programming for Internet applications course? We develop the course by integr ...

53 Session 1: cache: Characterization of L3 cache behavior of SPECjAppServer2002 and TPC-C



Eriko Nurvitadhi, Nirut Chalainanont, Shih-Lien Lu

June 2005 **Proceedings of the 19th annual international conference on Supercomputing ICS '05**

**Publisher:** ACM Press

Full text available:  pdf(535.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the proliferation of e-businesses, Java™ Middleware and OLTP applications are gaining importance. As the gap between CPU and memory latencies continues to increase, the performance of these applications running on multiprocessor systems will become further limited by the memory system. This study characterizes the memory behavior of such applications using the SPECjAppServer2002 and TPC-C benchmarks running on a real multiprocessor system. More specifically, the shared and private L3 ...

**Keywords:** L3 characterization, application server and OLTP, emulator

54 A multi-tier framework for accessing distributed, heterogeneous spatial data in a federation based EIS



Claus Hofmann

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems GIS '99**

**Publisher:** ACM Press

Full text available:  pdf(271.85 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** 3-tier GIS design, GIS integration, interoperability

55 Industry perspective: Too much middleware



Michael Stonebraker

March 2002 **ACM SIGMOD Record**, Volume 31 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(524.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The movement from client-server computing to multi-tier computing has created a potpourri of so-called middleware systems, including application servers, workflow products, EAI systems, ETL systems and federated data systems. In this paper we argue that the explosion in middleware has created a myriad of poorly integrated systems with overlapping functionality. The world would be well served by considerable consolidation, and we present some of the ways this might happen. Some of the points covered ...

56 Multimedia sensing: The case for multi-tier camera sensor networks



Purushottam Kulkarni, Deepak Ganesan, Prashant Shenoy

June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**

**Publisher:** ACM Press

Full text available: [pdf\(961.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this position paper, we examine recent technology trends that have resulted in a broad spectrum of camera sensors, wireless radio technologies, and embedded sensor platforms with varying capabilities. We argue that future sensor applications will be hierarchical with multiple tiers, where each tier employs sensors with different characteristics. We argue that multi-tier networks are not only scalable, they offer a number of advantages over simpler, single-tier unimodal networks: lower cost, better ...

**Keywords:** multi-tier sensor networks, video sensors

57 An architectural style of product lines for distributed processing systems, and practical selection method



Yoshitomi Morisawa, Koji Torii

September 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-9, Volume 26 Issue 5**

**Publisher:** ACM Press

Full text available: [pdf\(284.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When implementing an application system in a distributed computing environment, several architectural questions arise, such as how and where computing resources are arranged, and how the communication among computing resources are implemented. To simplify the process of making these choices, we have developed an architectural style for distributed processing system. The style classifies product lines for distributed processing systems into nine categories based on the location of data storage and ...

**Keywords:** architectural style, distributed computing model, distributed processing system, product lines, software architecture

58 Manufacturing applications: manufacturing systems design: Digital factory: simulation enhancing the product and production engineering process

Wolfgang Kühn

December 2006 **Proceedings of the 37th conference on Winter simulation WSC '06**

**Publisher:** Winter Simulation Conference

Full text available: [pdf\(619.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The digital factory concept offers an integrated approach to enhance the product and production engineering processes and simulation is a key technology within this concept. Different types of simulation, such as discrete event or 3D-motion simulation can be applied in virtual models on various planning levels and stages to improve the product and process planning on all levels. The focus and key factor is the integration of the various planning and simulation processes. In an advanced stage simulation ...



**Extending model driven architecture benefits to requirements engineering**

Salah Kabanda, Mathew Adigun

**October 2006 Proceedings of the 2006 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries SAICSIT '06****Publisher:** ACM PressFull text available: [pdf\(145.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This work focuses on developing a requirement engineering model (RSPL) based on a Model Driven Architecture (MDA) and Web-tier Application Framework (WAF), to support automatic and interactive requirements generation when creating families of systems. In realizing the model, two goals were targeted namely (i) to construct a RE model that support automatic transformation of domain features into actor-specific requirements; and (ii) to design and implement an interactive web based tool for require ...

**Keywords:** model driven architecture, requirement specification model for product lines, software product line engineering, web-tier application framework

**60 StratOSphere: mobile processing of distributed objects in Java**

Daniel Wu, Divyakant Agrawal, Amr El Abbadi

**October 1998 Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '98****Publisher:** ACM PressFull text available: [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

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